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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,768	12/21/2004	Fukumi Morishige	122196	4924
25944 OLIFF & BERI	7590 07/10/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	50	HUGHES, ALICIA R		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			1614	
			MAIL DATE	DELIVERY MODE
			07/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/518,768	MORISHIGE, FUKUMI			
		Examiner	Art Unit			
		ALICIA R. HUGHES	1614			
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) \	Responsive to communication(s) filed on 21 /	December 2007				
-	Responsive to communication(s) filed on <u>21 December 2007</u> . This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
<u>ا</u>	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	on of Claims					
4)🖂	☑ Claim(s) <u>1-9</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	☐ Claim(s) is/are allowed.					
	☐ Claim(s) <u>1-9</u> is/are rejected.					
	Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/	or election requirement.				
Application Papers						
9)□	The specification is objected to by the Examin	ner				
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
٠٠/۵	Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice (3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:				

DETAILED ACTION

Status of the Claims and Examination

Claims 1-9 are pending and the subject of this Office Action.

Applicant's arguments and amendments filed on 21 December 2007 have been fully considered, but they are not deemed to be persuasive. Rejections and objections not reiterated from previous office actions are hereby withdrawn.

The following rejections are reiterated and expounded upon, and they constitute the complete set presently being applied to the instant application.

Claim Rejections 35 U.S.C. §112.1

The following is a quotation of the first paragraph of 35 U.S.C. §112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention.

Applicant argues that mitochondrial disease is clearly defined in the specification as those disorders of the body in which mitochondria are abnormal in their shape, function, and DNA.

As stated previously, this does not go far enough in showing Applicants' possession of their claimed invention. The specification is written broadly, and simply notes types of mitochondrial diseases, such as chronic progressive external ophthalmoplegia, myoclonus epilepsy associated with ragged-red fibers, MELAS, Leber's (Specification, page 14, lines 11-12). In short, the specification fails to clearly define mitochondrial disease, and the reference provided is insufficient to meet the written description proviso of 35 U.S.C. 112, first paragraph.

In view of the foregoing and for the reasons previously made of record, the rejection is maintained.

Claim Rejection - 35 USC § 102

The following is a quotation of 35 U.S.C. 102(e) which forms the basis for all obviousness rejections set forth in this Office Action:

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Publication No. 2003-335664 [hereinafter referred to as "Fukumi et al"].

The teachings of Fukumi et al and reference to McFarland et al in this Office's action of

21 September 2007 are incorporated herein by reference in their entirety.

Applicant argues that Fukumi et al only discloses preventing cerebrospinal system

neurotrophy by preventing an imbalance between lysine and arginine, but does not bear any

relation to the treatment of mitochondrial disease and neither is indicative of the other.

As noted in this Office's previous action, Fukumi et al do essentially anticipate all of the

functional claims of the present application. While Fukumi et al do not explicitly purport to treat

mitochondrial diseases, inherent in its treatment of, for example, myoclonus syndrome and

encephalopathy (See page 2 of 19, paragraph 10) by increasing the bioavailability of L-arginine

content, is the treatment of mitochondrial disease. See generally, McFarland, Robert, et al., "The

Neurology of Mitochondrial DNA Disease," Neurology, Vol. 1, pages 343-351 (October

2002)(noting mitochondrial neurogastrointestinal encephalopathy syndrome, mitochondrial

encephalopathy lactic acidosis and stroke-like episodes, and myoclonus epilepsy with ragged red

fibres as mitochondrial diseases, and the same are disclosed as treated by the prior art).

In consideration of the foregoing, the instant invention was clearly anticipated by the art

disclosed for the reasons made of record.

Conclusion

No claims are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

¹ Cited on PTO Form 892 on 21 September 2007.

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Hughes whose telephone number is 571-272-6026. The examiner can normally be reached from 9:00 AM to 5:00 PM, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, can be reached at 571-272-0718. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR of Public PAIR. Status information for unpublished applications is available through Public PAIR only. For information about the PAIR system, see http://pair-direct-uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Alicia R. Hughes/

Examiner, Art Unit 1614

/Raymond J Henley III/ Primary Examiner, Art Unit 1614